

**03050109-160**  
**(Little River)**

### **General Description**

Watershed 03050109-160 is located in Laurens and Newberry Counties and consists primarily of the *Little River* and its tributaries. The watershed occupies 147,032 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil-Pacolet-Madison-Herndon series. The erodibility of the soil (K) averages 0.28; the slope of the terrain averages 15%, with a range of 2-40%. Land use/land cover in the watershed includes: 5.22% urban land, 14.25% agricultural land, 5.26% scrub/shrub land, 0.81% barren land, 74.36% forested land, and 0.10% water.

Reedy Fork Creek flows into the Little River in the City of Laurens, and Burnt Mill Creek (Scout Branch) enters the river further downstream. North Creek, Beaverdam Creek, and Simmons Creek drain into Little River next followed by Garrison Creek, Sandy Run Creek (Reeder Branch), Mechanic Creek, Mudlick Creek (Campbell Creek, North Campbell Creek, Mill Creek, Watkins Creek, Mills Creek, Pages Creek), Davenport Branch, Stephens Creek, and Turners Branch. There are a total of 190.8 stream miles in this watershed, all classified FW. Several small lakes are located in the watershed for recreation, and a large pond (150 acres) is located on Beaverdam Creek for flood control.

### **Water Quality**

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
S-034	P	FW	LITTLE RIVER AT US BUSINESS 76, IN LAURENS ABOVE WWTP
S-297	S	FW	LITTLE RIVER AT SC ROUTE 127
S-135	S	FW	NORTH CREEK AT US 76, 2.8 MI W OF CLINTON
S-038	W	FW	LITTLE RIVER AT SC 560
S-100	BIO	FW	LITTLE RIVER AT SR 48
S-099	S	FW	LITTLE RIVER AT S-36-22, 8.3 MI NW SILVERSTREET
S-305	W	FW	LITTLE RIVER AT SC 34

**Little River** - There are six monitoring sites along the Little River, which was Class B until April, 1992. At the furthest upstream site (S-034), aquatic life uses are fully supported, but there is a significant increasing trend in turbidity and a high concentration of zinc measured in 1993. Significant decreasing trends in five-day biochemical oxygen demand and total phosphorus and total nitrogen concentrations suggest improving conditions for these parameters. Further downstream (S-297), aquatic life uses are again fully supported, but there is a significant decreasing trend in pH. A significant increasing trend in dissolved oxygen concentration and significant decreasing trends in five-day biochemical oxygen demand and total phosphorus concentrations suggest improving conditions for these parameters. Recreational uses are not supported at either upstream site due to fecal coliform bacteria excursions.

At the next site downstream (S-038), aquatic life uses are fully supported, but there was a very high concentration of chromium measured in 1997. Recreational uses are partially supported due to fecal coliform bacteria excursions. Aquatic life uses are fully supported further downstream (S-100) based on macroinvertebrate community data. At the next station downstream (S-099), aquatic life uses are again fully supported, and significant decreasing trend in total phosphorus concentrations suggests improving conditions for these parameters. Recreational uses are not supported due to fecal coliform bacteria excursions, compounded by a significant increasing trend in fecal coliform bacteria. At the furthest downstream site (S-305), aquatic life uses are fully supported, but recreational uses are not supported due to fecal coliform bacteria excursions.

**North Creek (S-135)** - This stream was Class B until April, 1992. Aquatic life uses are fully supported, but there is a significant decreasing trend in pH. A significant increasing trend in dissolved oxygen concentration and significant decreasing trends in five-day biochemical oxygen demand, total phosphorus concentrations, and turbidity suggest improving conditions for these parameters. Recreational uses are not supported due to fecal coliform bacteria excursions, compounded by a significant increasing trend in fecal coliform bacteria.

## **Permitted Activities**

### **Point Source Contributions**

<b>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT</b>	<b>NPDES# TYPE LIMITATION</b>
LITTLE RIVER CITY OF LAURENS PIPE #: 001 FLOW: 4.500 WQL FOR NH3-N, DO, TRC, BOD5	SC0020702 MAJOR MUNICIPAL WATER QUALITY
LITTLE RIVER WR GRACE & CO./CRAIG MINE PIPE #: 001 FLOW: M/R	SCG730003 MINOR INDUSTRIAL EFFLUENT
LITTLE RIVER WR GRACE & CO./HUDGENS MINE PIPE #: 001 FLOW: M/R	SCG730030 MINOR INDUSTRIAL EFFLUENT
DITCH TO LITTLE RIVER CHAMPION INTL. CORP. PIPE #: 001 FLOW: 0.239	SC0022730 MINOR INDUSTRIAL EFFLUENT
LITTLE RIVER TRIBUTARY JPS CONVERTER & INDUSTRIES/WATTS PIPE #: 001 FLOW: .0003	SCG250011 MINOR INDUSTRIAL EFFLUENT
LITTLE RIVER TRIBUTARY WR GRACE & CO./HICKORY MINE PIPE #: 001 FLOW: M/R	SCG730002 MINOR INDUSTRIAL EFFLUENT
LITTLE RIVER TRIBUTARY WR GRACE & CO./STRIBLING MINE PIPE #: 001 FLOW: M/R	SCG730087 MINOR INDUSTRIAL EFFLUENT
SPRAYFIELD TO TURNER BRANCH ISE NEWBERRY, INC. PIPE #: 001 FLOW: WQL FOR BOD5, NH3-N	SC0047686 MINOR INDUSTRIAL WATER QUALITY
REEDY FORK CREEK CITY OF LAURENS/WTP PIPE #: 001 FLOW: 0.03 WQL FOR TRC	SCG645006 MINOR DOMESTIC WATER QUALITY
BURNT MILL CREEK	SC0041742

INDUSTRIAL METAL PROCESSING  
PIPE #: 001 FLOW: M/R

MINOR INDUSTRIAL  
EFFLUENT

BURNT MILL CREEK  
WR GRACE & CO./TRISTAN MINE  
PIPE #: 001 FLOW: M/R

SCG730031  
MINOR INDUSTRIAL  
EFFLUENT

LAND APPLICATION  
FACILITY NAME

PERMIT#  
TYPE

SPRAYFIELD  
DOUBLE M FARMS

ND0078191  
DOMESTIC

### ***Landfill Activities***

***SOLID WASTE LANDFILL NAME  
FACILITY TYPE***

***PERMIT #  
STATUS***

ALSIMAG (GE CERAMICS)  
INDUSTRIAL

-----  
CLOSED

LAURENS COUNTY  
MUNICIPAL

-----  
CLOSED

### ***Mining Activities***

***MINING COMPANY  
MINE NAME***

***PERMIT #  
MINERAL***

WR GRACE & CO.  
TRISTON MINE

0750-30  
VERMICULITE

WR GRACE & CO.  
HUDGING MINE

0749-30  
VERMICULITE

WR GRACE & CO.  
LEONARD MINE

0835-30  
VERMICULITE

WR GRACE & CO.  
STRIBLING MINE

1117-30  
VERMICULITE

WR GRACE & CO.  
MIMS MINE

1020-30  
VERMICULITE

CAROLINA VERMICULITE COMPANY, INC.  
KENNETH HANNA MINE

0642-30  
VERMICULITE

CAROLINA VERMICULITE COMPANY, INC.  
WL PATTERSON MINE

1130-30  
VERMICULITE

CAROLINA VERMICULITE COMPANY, INC.  
VERENES TRACT

1111-30  
VERMICULITE

SOUTHERN BRICK COMPANY  
SPIGNER MINE

0828-36  
CLAY

### ***Groundwater Concerns***

The groundwater in the vicinity of the landfill and surface impoundments owned by Alsimag (GE

Ceramics) is contaminated with volatile organics. The facility is in the assessment phase, and remediation options are being evaluated for plant two area. The surface water affected by the groundwater contamination is an unnamed tributary to Reedy Fork Creek.

### ***Water Supply***

***WATER USER (TYPE)***

***WATERBODY***

**CITY OF LAURENS CPW (M)**

**REEDY FORK CREEK**

***REGULATED CAPACITY (MGD)***

***PUMPING CAPACITY (MGD)***

**1.5**

**3.5**

### **Growth Potential**

The City of Laurens is located in the northern portion of this watershed and has a high potential for growth. Factors that influence this growth include two major rail lines, US 221, US 76, and I-385. The Laurens County Industrial Park is a growth area in the predominately rural southern portion of the watershed.